W0155
W0151
W0149

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISION

WARD 7: BYATARAYANAPURA

Name of work:- Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura

Estimate Cost: 50.00 lakhs

Name of Work:- Improvements to drains of 4th to 6th cross roads of jakkur layout in ward No.07, Byatarayanapura

Estimated Cost:- 50.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.141.Item No.19.1)								
	Basic Rate:	cum	**82.00**						
	Area Weightage @ 6%		4.92						
	Total		**86.92**						
	RCC DRAIN								
	4th A cross		2	145.00	0.75	0.90	195.75		
	5th A cross		2	145.00	0.75	0.90	195.75		
	6th A cross		2	57.00	0.75	0.90	76.95		
	Desilting of drains and over burden earth		1	35.00	1.00	0.60	21.00		
					TOTAL		**489.45**	86.92	42543.00
2	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.12, It.4.3)**								
	Basic Rate:	cum	4867.00						
	Area Weightage @ 6%		292.02						
	Total		5159.02						
	RCC DRAIN- BOTTOM								
	4th A cross		2.00	145.00	0.75	0.15	32.63		
	5th A cross		2.00	145.00	0.75	0.15	32.63		
	6th A cross		2.00	57.00	0.75	0.15	12.83		
	For ramps- (Length for shoulder drains deducted)		2.00	145.00	0.30	0.15	13.05		
			2.00	145.00	0.30	0.10	8.70		
			2.00	57.00	0.30	0.10	3.42		
					TOTAL		**103.25**	5159.02	532644.00

3	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 13, Item NO. 4.11)								
	Basic Rate:	cum	6011.00						
	Area Weightage @ 6%		360.66						
	Total		6371.66						
	Bottom								
	4th A cross		2.00	145.00	0.75	0.15	32.63		
	5th A cross		2.00	145.00	0.75	0.15	32.63		
	6th A cross		2.00	57.00	0.75	0.15	12.83		
	Side Wall								
	4th A cross	**2x2**	4.00	145.00	0.15	0.60	52.20		
	5th A cross	**2x2**	4.00	145.00	0.15	0.60	52.20		
	6th A cross	**2x2**	4.00	57.00	0.15	0.60	20.52		
							203.00	6371.66	1293416.00
4	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.17, Item No.17)								
	Basic Rate:	Tonne	60607.00						
	Area Weightage @ 6%		3636.42						
	Total		64243.42						
	Reinforcement for side wall						203.00		
			At 55 Kg % per cum				**11.16**	64243.42	717261.00
5	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular sla**bs **/side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	Basic Rate:	Sqm	366.00						
	Area Weightage @ 6%		21.96						
	Total		387.96						
	SIDE WALL								
	4th A cross	2x4	8	145.00		0.60	696.00		
	5th A cross	2x4	8	145.00		0.60	696.00		
	6th A cross	2x4	8	57.00		0.60	273.60		
							1665.60	387.96	646187.00

6	KSRB4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.69 cum and fine aggragtes @ 0.459cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	Basic Rate:	Sqm	5441.00						
	Area Weightage @ 6%		326.46						
	Total		5767.46						
	For ramps- (Length for shoulder drains deducted)		2.00	145.00	0.30	0.10	8.70		
			2.00	145.00	0.30	0.10	8.70		
			2.00	57.00	0.30	0.10	3.42		
							20.82	5767.46	120079.00
7	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data								
	DETA RATE	**Sqm**							
	Covering Slab								
	4th A cross		2	145		0.75	217.50		
	5th A cross		2	145		0.75	217.50		
	6th A cross		2	57		0.75	85.50		
							520.50	2100.00	1093050.00
8	Providing and fixing MS Grating 260x260 mm(Page No.VIII, Sl No.237, code No.0771)								
	Basic Rate:	Nos	89.00						
	Area Weightage @ 6%		5.34						
	Total		94.34						
	For shoulder drians								
	4th A cross		30				30.00		
	5th A cross		20				20.00		
	6th A cross		20				20.00		
							70.00	94.34	6603.80
9	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Basic Rate	cum	**68.00**				489.45	106.00	51882.00
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10Km		**32.00**						
	Total		**100.00**						
	Add Area Weightage6%		**6.00**						
			106.00						

10						Sub Total	4503665.80
11						Add 10% Third party inspection charges	450366.58
12						Add 1% Labour cess charges	45036.66
13						Miscelleneous charges	930.96
14						Total	5000000.00

1)This is certified that the work spot comes under BBMP limits only.

2) The work spot is inspected by me

3) The items Provided in the Estimate are quite Essential

4)The rates are as per CSR of 2016-17 year of PWD Bangalore Circle.

Asst.Engineer	Asst.Exe.Engineer	Executive Engineer
Ward no.7	Kodigehalli Sub-division	Byatrayanapura Division
	B.B.M.P.	B.B.M.P.

ADMINISTRATIVE APPROVAL

Accorded For Rs. Fifty Lakhs only

Head of A/c. P-1878

Div. Ref. No. 133/17-18 Date. 22/12/17

AE 22/12

EE(BTP) 22/12

Technical Sanction

Accorded For 50.00 lakh R.

Head of A/C. P1878

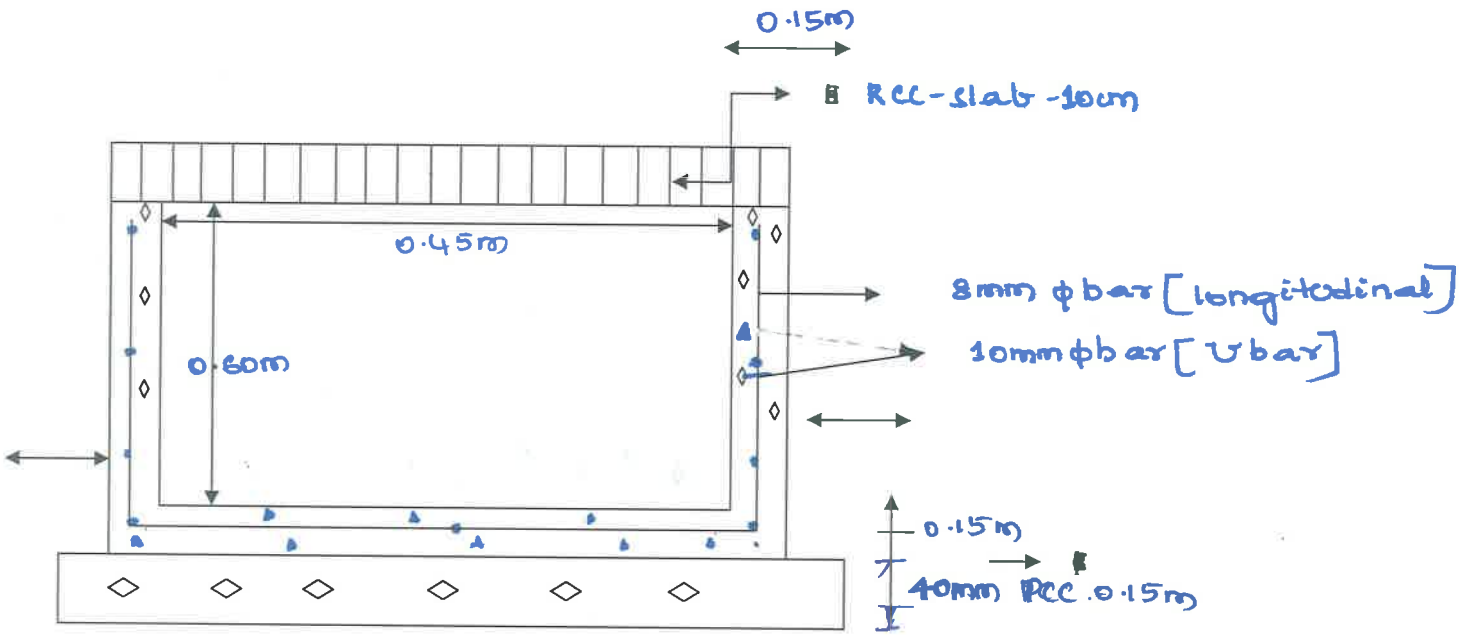
CER NO : 514 Dt:. 12/01/18

TA

CE (YNK)

Name of work:- Improvements to drains of 4th to 6th cross roads of Jakkur layout in ward no-07

Est cost:- 50-00 lakhs.



CROSS SECTION OF RCC DRAIN

M.N.D
AE(W4)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Improvements to drains from 4th to 6th cross roads of Jakkuru layout in ward no 07 - byatarayanapura.

AE(W4)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092